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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,751	09/12/2003	Thomas D. Williams	62451.00003	5984
32294 7590 01/31/2007 SQUIRE, SANDERS & DEMPSEY L.L.P.			EXAMINER	
14TH FLOOR		•	PATEL, JAYESH A	
8000 TOWERS CRESCENT TYSONS CORNER, VA 22182		•	ART UNIT	PAPER NUMBER
		•	2624	
SHORTENED STATUTORY I	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
31 DAY		01/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/660,751	WILLIAMS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jayesh A. Patel	2624				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a mod will apply and will expire SIX (6) MO latute, cause the application to become b	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	2 September 2003.					
	This action is non-final.					
,						
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Exan	niner.					
10)⊠ The drawing(s) filed on <u>12 September 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the con	rrection is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	·	. •				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bu						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)		o(s)/Mail Date Informal Patent Application				
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:					
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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: For example in the detailed description of the preferred embodiments on Page 15 Cameras 20,22 and 24 are not there. Like wise on Page 14 the Fig 1 does not have dashed line "as in Fig 1 by the dashed line". Also Page 23 of the descriptions says "As shown in Fig 7", but there is no figure 7 in the drawings, All the elements of the drawings in the specifications and the drawings do not match. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: The numberings of Figures and the corresponding elements in the figures as disclosed in the descriptions does not match. This is for all the drawings. For example in the detailed description of the preferred embodiments on Page 15 Cameras 20,22 and 24 are not there. Like wise on Page 14 the Fig 1 does not have dashed line "as in Fig 1 by the dashed line". Also Page 23 of the descriptions says "As shown in Fig 7", but there is no figure 7 in the drawings. All the elements of the drawings in the specifications and the drawings do not match. Appropriate correction in the drawings and the specifications are required.

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"full, clear, concise, and exact terms." The specification is replete with terms, which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. The elements in the drawings and the specification do not match as mentioned above.

Claim Rejections - 35 USC § 112

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase "There is no testing step or further improvement" does not further limit the claim.

Application/Control Number: 10/660,751

Art Unit: 2624

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Page 4

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by an article Human tracking in multiple Cameras (Computer Vision, 2001 ICCV 2001.937537) by Khan, S., Javed, O., Rasheed, Z., and Shah, M. hereafter Khan.

1. Regarding Claim 1, Khan discloses, a method and system (Abstract) for creating a novel viewpoint image from a plurality of images comprising the steps of a. Simultaneously and continuously acquiring sets of images from a plurality of cameras in (Introduction Lines 3-5); Using predetermined background based correspondence fields to detect novel objects at (Col 2 Lines 16-18, 23-25 and 28-30, Khan also discloses in section 4 the use of background subtraction for tracking people); Assigning the image representations for these objects likely new correspondences (Col 3 Lines 22-24); Testing these likely new correspondences and further improving upon them in a refinement step (Col 2 Lines 34-41); and Using the resulting correspondences, construct a novel viewpoint image (Col 6 Lines 16-19 and Abstract 11-14).

Application/Control Number: 10/660,751

Art Unit: 2624

2. Regarding Claim 2, Khan discloses a method in claim 1 wherein a. The background based correspondence field is generated by an automatic means that, on an application basis, slowly changes to accommodate such slow changes in the background environment in (Col 9 Lines 4-11).

Page 5

- 3. Regarding Claim 3, Khan discloses a method in claim 1 wherein a. The assignment of image representation likely new correspondences is random at (Col 2 Lines 28-34).
- **4.**Regarding Claim 4, the method in claim 1 wherein a. There is no testing step or further improvement does not further limit the claim and is not a novel feature.
- 5. Regarding Claim 5, Khan discloses a method in claim 1 wherein Parts of the scene that become visible in the novel viewpoint image for which no data are present in the image being warped because of occlusion in the said image being warped are provided by some other image from yet another viewpoint for which appropriate correspondences exist at (Col 9 Lines 20-26). The data for the novel viewpoint image comes from the other images from the cameras by the constant velocity based tracking and has appropriate correspondence. This reduces occlusion in the images. The constant velocity based assumption in the tracker gets the data from other viewpoint for the construction of the novel viewpoint.

Art Unit: 2624

Conclusion

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayesh A. Patel whose telephone number is 571-270-1227. The examiner can normally be reached on M-F 7.00am to 4.30 pm (5-4-9). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jayesh Patel 1/26/07

LIPERVISORY PATENTEXAMINER